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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,110	04/11/2007	Alexander Michael Van Der Spek	TS6362US	1978
23632 SHELL OIL C	23632 7590 02/02/2009 SHELL OIL COMPANY		EXAMINER	
P O BOX 2463			BOMAR, THOMAS S	
HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER
			3676	
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			02/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/584,110	VAN DER SPEK, ALEXANDER		
	MICHAEL		
Examiner	Art Unit		
Shane Bomar	3676		

Attachment(s)

Notice of References Cited (PTO-892)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. _ 5) Notice of Informal Patent Application
6) Other: _____.

Part of Paper No./Mail Date 20090129

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DETAILED ACTION

Claim Objections

 Claim 1 is objected to because of the following informalities: in order to make the claim clearer, it is suggested that the words --to measure-- be added directly before "the velocity" in line 5. Appropriate correction is required.

Claim 1 recites the limitation "said natural fluctuations" in line 5. There is insufficient
antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 01/75403 of Brown (Applicant's admitted prior art).

Regarding claims 1 and 4, Brown discloses a method for downhole flow measurement in a well, the method comprising installing a fiber optical distributed temperature sensor (DTS) system 62 along at least part of the length of an inflow region of the well and using the sensor to measure one or more fluctuations of the temperature of fluids flowing along different locations from the formation into the well and to measure the velocity (velocity is synonymous with linear flow rate; page 1, lines 28-30) at which at least one of said natural fluctuations migrates in a downstream direction through the well (Figs. 11, 13 and 14; pages 18-21).

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Regarding claims 2 and 3, the DTS system is configured to track the downstream migration through the well of natural low frequency temperature variations down to about 0.5 Degrees Celsius (page 17, lines 4-9).

Regarding claim 5, the well produces oil (page 17, lines 17-20).

Regarding claims 6 and 7, the fluids flowing into the well comprise gaseous components and or components which at least partly evaporate in the inflow region and the fluid production rate of the well is cyclically varied over time by the opening of a production choke 55 (Fig. 13; page 24 line 34 through page 25, line 2).

Conclusion

The prior art made of record on form 892 and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shane Bomar whose telephone number is (571)272-7026. The examiner can normally be reached on Monday-Thursday from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer H. Gay can be reached on 571-272-7029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shane Bomar/ Primary Examiner, Art Unit 3676